

8-29-02

gerstl - 09 / 923198

Page 1

=&gt; fil reg

FILE 'REGISTRY' ENTERED AT 09:39:14 ON 29 AUG 2002

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STRUCTURE FILE UPDATES: 27 AUG 2002 HIGHEST RN 445218-02-0

DICTIONARY FILE UPDATES: 27 AUG 2002 HIGHEST RN 445218-02-0

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

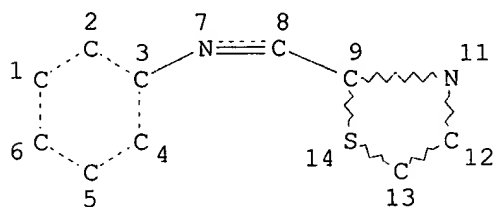
Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STNote 27, Searching Properties in the CAS  
Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=&gt; d sta que 110

L1 STR



NODE ATTRIBUTES:

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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

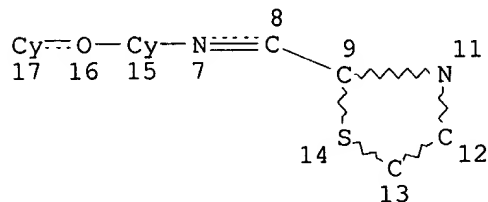
NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE

L3 SCR 2004 AND 1840

L5 195 SEA FILE=REGISTRY SSS FUL L1 AND L3

L6 STR



NODE ATTRIBUTES:

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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L8 8 SEA FILE=REGISTRY SUB=L5 SSS FUL L6

Jan Delaval  
Reference Librarian  
Biotechnology & Chemical Library  
CM1 1E07 - 703-308-4498  
[jan.delaval@uspto.gov](mailto:jan.delaval@uspto.gov)

L9 3 SEA FILE=REGISTRY ABB=ON PLU=ON L8 AND (C26H20N4O2S OR  
C31H23N5O3S2 OR C28H18N4OS4)  
L10 5 SEA FILE=REGISTRY ABB=ON PLU=ON L8 NOT L9

=> d his l10-

(FILE 'REGISTRY' ENTERED AT 09:33:22 ON 29 AUG 2002)  
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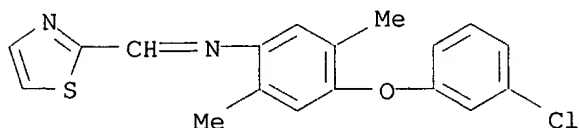
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L12 2 S L10

FILE 'USPATFULL, USPAT2' ENTERED AT 09:38:57 ON 29 AUG 2002  
L13 1 S L10

FILE 'REGISTRY' ENTERED AT 09:39:14 ON 29 AUG 2002

=> d l10 ide can tot

L10 ANSWER 1 OF 5 REGISTRY COPYRIGHT 2002 ACS  
RN 395663-58-8 REGISTRY  
CN Benzenamine, 4-(3-chlorophenoxy)-2,5-dimethyl-N-(2-thiazolylmethylene)-  
(9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C18 H15 Cl N2 O S  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



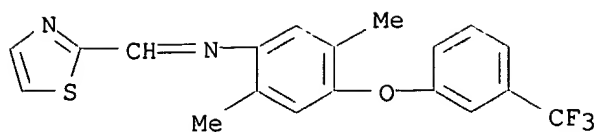
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1967 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:183603

REFERENCE 2: 136:150990

L10 ANSWER 2 OF 5 REGISTRY COPYRIGHT 2002 ACS  
RN 395663-57-7 REGISTRY  
CN Benzenamine, 2,5-dimethyl-N-(2-thiazolylmethylene)-4-[3-(trifluoromethyl)phenoxy]- (9CI) (CA INDEX NAME)  
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MF C19 H15 F3 N2 O S  
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LC STN Files: CA, CA, USPATFULL



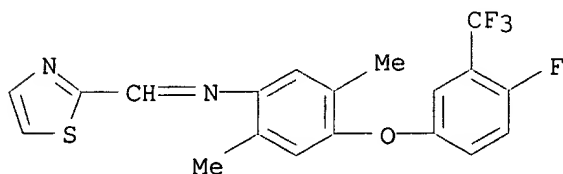
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1967 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:183603

REFERENCE 2: 136:150990

L10 ANSWER 3 OF 5 REGISTRY COPYRIGHT 2002 ACS  
RN 395663-56-6 REGISTRY  
CN Benzenamine, 4-[4-fluoro-3-(trifluoromethyl)phenoxy]-2,5-dimethyl-N-(2-thiazolylmethylene)- (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C19 H14 F4 N2 O S  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



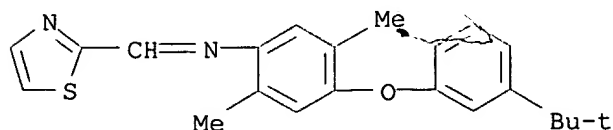
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1967 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:183603

REFERENCE 2: 136:150990

L10 ANSWER 4 OF 5 REGISTRY COPYRIGHT 2002 ACS  
RN 395663-55-5 REGISTRY  
CN Benzenamine, 4-[3-(1,1-dimethylethyl)phenoxy]-2,5-dimethyl-N-(2-thiazolylmethylene)- (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C22 H24 N2 O S  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



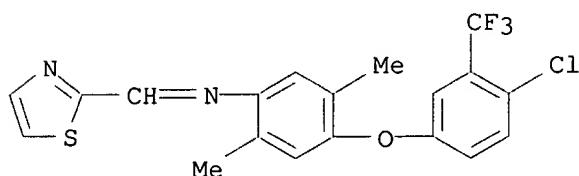
## \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1967 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:183603

REFERENCE 2: 136:150990

L10 ANSWER 5 OF 5 REGISTRY COPYRIGHT 2002 ACS  
RN 395663-54-4 REGISTRY  
CN Benzenamine, 4-[4-chloro-3-(trifluoromethyl)phenoxy]-2,5-dimethyl-N-(2-thiazolylmethylene)- (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C19 H14 Cl F3 N2 O S  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



## \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1967 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:183603

REFERENCE 2: 136:150990

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CA INDEXING COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 09:39:28 ON 29 AUG 2002  
CA INDEXING COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

=&gt; d bib abs hitstr l13

L13 ANSWER 1 OF 1 USPATFULL  
AN 2002:192097 USPATFULL  
TI Fungicide phenylimine derivatives  
IN Gerusz, Vincent, San Antonio, TX, UNITED STATES  
Mansfield, Darren James, Lyon, FRANCE  
Perez, Joseph, Lyon, FRANCE  
Vors, Jean-Pierre, Lyon, FRANCE  
PA Aventis CropScience S.A. (U.S. corporation)  
PI US 2002103168 A1 20020801  
AI US 2001-923198 A1 20010806 (9)  
PRAI EP 2000-116819 20000804  
DT Utility  
FS APPLICATION  
LREP OSTROLENK FABER GERB & SOFFEN, 1180 AVENUE OF THE AMERICAS, NEW YORK,  
NY, 100368403

CLMN Number of Claims: 35

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 912

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides fungicidal compounds of formula I and salts thereof: ##STR1##

wherein

the various radicals and substituents are as defined in the description, fungicidal compositions containing them and method for combating fungi which comprises applying these.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

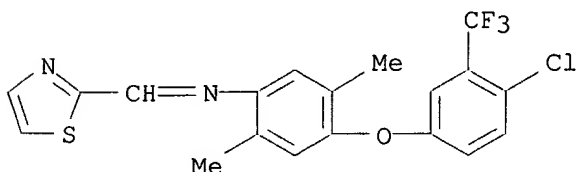
IT 395663-54-4P 395663-55-5P 395663-56-6P

395663-57-7P 395663-58-8P

(prepn. of N-(phenoxyphenyl)heteroaryimines as agrochem. fungicides)

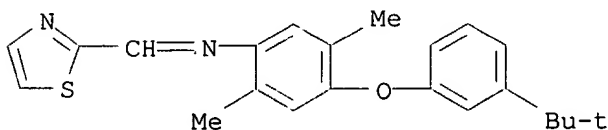
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CN Benzenamine, 4-[4-chloro-3-(trifluoromethyl)phenoxy]-2,5-dimethyl-N-(2-thiazolylmethylene)- (9CI) (CA INDEX NAME)



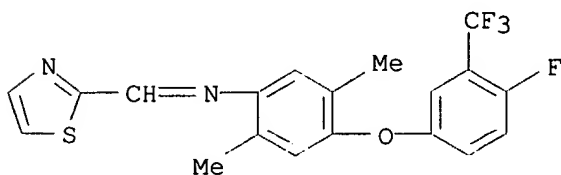
RN 395663-55-5 USPATFULL

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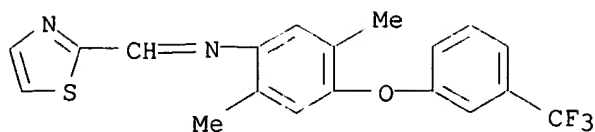
RN 395663-56-6 USPATFULL

CN Benzenamine, 4-[4-fluoro-3-(trifluoromethyl)phenoxy]-2,5-dimethyl-N-(2-thiazolylmethylene)- (9CI) (CA INDEX NAME)

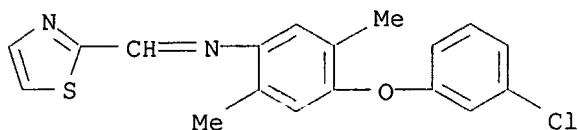


RN 395663-57-7 USPATFULL

CN Benzenamine, 2,5-dimethyl-N-(2-thiazolylmethylene)-4-[3-(trifluoromethyl)phenoxy]- (9CI) (CA INDEX NAME)



RN 395663-58-8 USPATFULL  
 CN Benzenamine, 4-(3-chlorophenoxy)-2,5-dimethyl-N-(2-thiazolylmethylene)-  
 (9CI) (CA INDEX NAME)



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FILE COVERS 1907 - 29 Aug 2002 VOL 137 ISS 9  
 FILE LAST UPDATED: 27 Aug 2002 (20020827/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

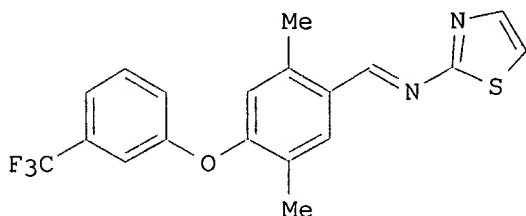
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L12 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2002 ACS  
 AN 2002:138922 HCAPLUS  
 DN 136:183603  
 TI Preparation of N-(phenoxyphenyl)imines and analogs as agrochemical fungicides  
 IN Gerusz, Vincent; Mansfield, Darren James; Perez, Joseph; Vors, Jean-Pierre  
 PA Aventis Cropscience S.A., Fr.  
 SO Eur. Pat. Appl., 28 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English

IC ICM C07C251-24  
 ICS C07D277-28; C07D207-32; C07D213-53; C07D307-70; A01N035-10;  
 A01N043-78; A01N043-36; A01N043-08; A01N043-40  
 CC 25-4 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
 Section cross-reference(s): 5

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1180512	A1	20020220	EP 2000-116819	20000804
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	EP 1178035	A1	20020206	EP 2001-420177	20010802
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2002205979	A2	20020723	JP 2001-237025	20010803
	US 2002103168	A1	20020801	US 2001-923198	20010806
PRAI	EP 2000-116819	A	20000804		
OS	MARPAT 136:183603				
GI					



II

AB R6OZN:CR1R2 [I; R1,R2 = H, alkyl, (hetero)aryl, etc.; R6 = e.g., (un)substituted Ph; Z = e.g., 2,5-dimethyl-1,4-phenylene] were prepd. Thus, 3-chloro-6-nitro-p-xylene was etherified by 3-(F3C)C6H4OH and the reduced product condensed with thiazole-2-carboxaldehyde to give title compd. II. Data for biol. activity of I were given.

ST phenoxyphenylimine prepn agrochem fungicide

IT Fungicides  
 (agrochem.; N-(phenoxyphenyl)imines and analogs)

IT 395663-54-4P 395663-55-5P 395663-56-6P  
 395663-57-7P 395663-58-8P 395663-59-9P 395663-60-2P  
 395663-62-4P 395663-64-6P 395663-66-8P 395663-67-9P 395663-68-0P  
 395663-69-1P 395663-70-4P 395663-71-5P  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepn. of N-(phenoxyphenyl)imines and analogs as agrochem. fungicides)

IT 98-17-9, 3-Trifluoromethylphenol 1122-62-9 10200-59-6,  
 2-Thiazolecarboxaldehyde 34633-69-7 395663-72-6  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (prepn. of N-(phenoxyphenyl)imines and analogs as agrochem. fungicides)

IT 287942-14-7P 287942-23-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (prepn. of N-(phenoxyphenyl)imines and analogs as agrochem. fungicides)

RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Anon; CAPLUS 1983:106883
- (2) Anon; NIPPON NOYAKU GAKKAISHI 1982, V7(8), P373
- (3) Anon; PATENT ABSTRACTS OF JAPAN 1985, V009(283), PC-313
- (4) Anon; PATENT ABSTRACTS OF JAPAN 1999, V1999(12)
- (5) Baum, J; US 4659360 A 1987 HCAPLUS

- (6) Bayer Ag; DE 19623744 A 1997 HCAPLUS
- (7) Buckley, A; US 5468857 A 1995 HCAPLUS
- (8) Chugai Seiyaku Kk; JP 60126267 A 1985 HCAPLUS
- (9) Ciba Geigy Ag; GB 1413513 A 1975 HCAPLUS
- (10) Duerr, D; US 4389236 A 1983 HCAPLUS
- (11) Gupta, S; INDIAN JOURNAL OF CHEMISTRY, SECTION B: ORGANIC, INCL MEDICINAL  
1979, V18(4), P381
- (12) Hough; WO 0046184 A 2000 HCAPLUS
- (13) Mitsubishi Chemical Corp; JP 11180964 A 1999 HCAPLUS
- (14) Moore, J; US 4059590 A 1977 HCAPLUS
- (15) Nippon Soda Co; JP 53113024 A 1978 HCAPLUS
- (16) Nissan Chemical Ind Ltd; EP 0563384 A 1993 HCAPLUS
- (17) Tsukamoto, M; WO 9921837 A 1999 HCAPLUS

IT 395663-54-4P 395663-55-5P 395663-56-6P

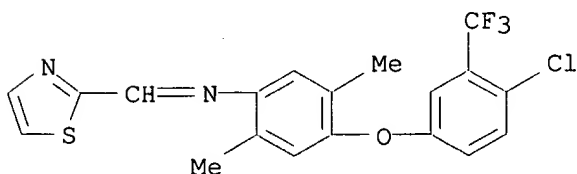
395663-57-7P 395663-58-8P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN  
(Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES  
(Uses)

(prepn. of N-(phenoxyphenyl)imines and analogs as agrochem. fungicides)

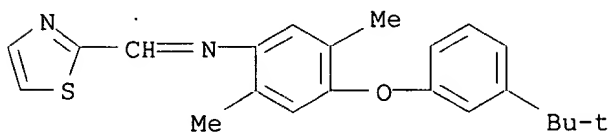
RN 395663-54-4 HCAPLUS

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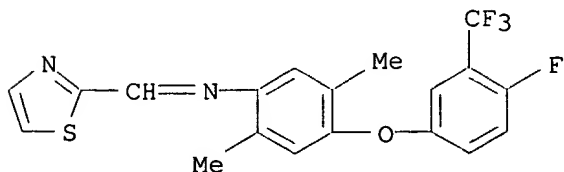
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CN Benzenamine, 4-[3-(1,1-dimethylethyl)phenoxy]-2,5-dimethyl-N-(2-thiazolylmethylene)- (9CI) (CA INDEX NAME)



RN 395663-56-6 HCAPLUS

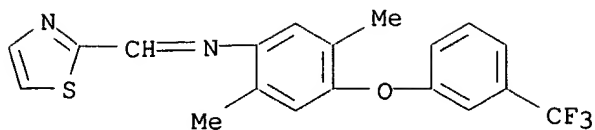
CN Benzenamine, 4-[4-fluoro-3-(trifluoromethyl)phenoxy]-2,5-dimethyl-N-(2-thiazolylmethylene)- (9CI) (CA INDEX NAME)



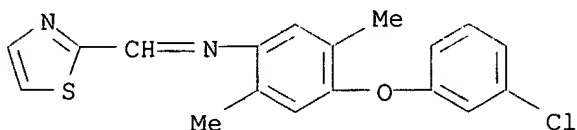
RN 395663-57-7 HCAPLUS

CN Benzenamine, 2,5-dimethyl-N-(2-thiazolylmethylene)-4-[3-(trifluoromethyl)phenoxy]- (9CI) (CA INDEX NAME)





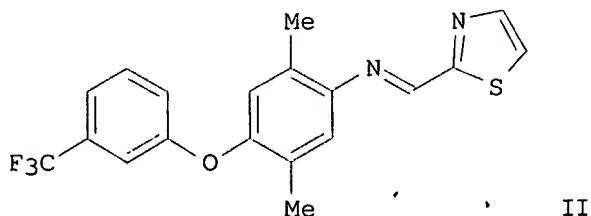
RN 395663-58-8 HCAPLUS  
 CN Benzenamine, 4-(3-chlorophenoxy)-2,5-dimethyl-N-(2-thiazolylmethylene)-  
 (9CI) (CA INDEX NAME)



L12 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2002 ACS  
 AN 2002:104654 HCAPLUS  
 DN 136:150990  
 TI Preparation of N-(phenoxyphenyl)heteroaryimines as agrochemical fungicides  
 IN Gerusz, Vincent; Mansfield, Darren James; Perez, Joseph; Vors, Jean-Pierre  
 PA Aventis Cropscience S.A., Fr.  
 SO Eur. Pat. Appl., 26 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 IC ICM C07C251-24  
 ICS C07D277-28; C07D207-32; C07D213-53; C07D307-70; A01N035-10;  
 A01N043-78; A01N043-36; A01N043-08; A01N043-40  
 CC 25-4 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
 Section cross-reference(s): 5

FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1178035	A1	20020206	EP 2001-420177	20010802
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
EP 1180512	A1	20020220	EP 2000-116819	20000804
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRAI EP 2000-116819	A	20000804		
OS MARPAT 136:150990				
GI				



II

AB R6OZN:CR1R2 [I; R1,R2 = H, alkyl, (hetero)aryl, etc.; R1R2 = atoms to complete a ring; R6 = substituted Ph; Z = 2,5-dimethyl-1,4-phenylene] were

prepd. Thus, 3-chloro-6-nitro-p-xylene was etherified by 3-(F3C)C6H4OH and the reduced product condensed with thiazole-2-carboxaldehyde to give title compd. II. Data for biol. activity of I were given.

ST phenoxyphenylheteroaryimine prepn agrochem fungicide

IT Fungicides

(agrochem.; N-(phenoxyphenyl)heteroaryimines)

IT 395663-54-4P 395663-55-5P 395663-56-6P

395663-57-7P 395663-58-8P 395663-59-9P 395663-60-2P

395663-62-4P 395663-64-6P 395663-66-8P 395663-67-9P 395663-68-0P

395663-69-1P 395663-70-4P 395663-71-5P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN

(Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of N-(phenoxyphenyl)heteroaryimines as agrochem. fungicides)

IT 98-17-9 1122-62-9 10200-59-6, 2-Thiazolecarboxaldehyde 34633-69-7

395663-72-6

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of N-(phenoxyphenyl)heteroaryimines as agrochem. fungicides)

IT 287942-14-7P 287942-23-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of N-(phenoxyphenyl)heteroaryimines as agrochem. fungicides)

RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Anon; CAPLUS Accession No 1983:106883, NIPPON NOYAKU GAKKAISHI 1982, V7(8), P373

(2) Baum, J; US 4659360 A 1987 HCAPLUS

(3) Bayer Ag; DE 19623744 A 1997 HCAPLUS

(4) Buckley, A; US 5468857 A 1995 HCAPLUS

(5) Chugai Seiyaku Kk; JP 60-126267 A 1985 HCAPLUS

(6) Ciba Geigy Ag; GB 1413513 A 1975 HCAPLUS

(7) Duerr, D; US 4389236 A 1983 HCAPLUS

(8) Gupta, S; INDIAN JOURNAL OF CHEMISTRY, SECTION B: ORGANIC, INCL MEDICINAL 1979, V18(4), P381

(9) Hoechst Schering Agrevo GmbH; WO 0046184 A 2000 HCAPLUS

(10) Mitsubishi Chemical Corp; JP 11-180964 A 1999, 12, HCAPLUS

(11) Moore, J; US 4059590 A 1977 HCAPLUS

(12) Nippon Soda Co; JP 53-113024 A 1978 HCAPLUS

(13) Nissan Chemical Ind Ltd; EP 0563384 A 1993 HCAPLUS

(14) Tsukamoto, M; WO 9921837 A 1999 HCAPLUS

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395663-57-7P 395663-58-8P

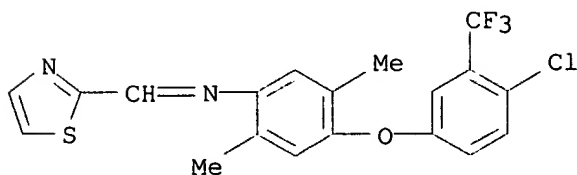
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(Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of N-(phenoxyphenyl)heteroaryimines as agrochem. fungicides)

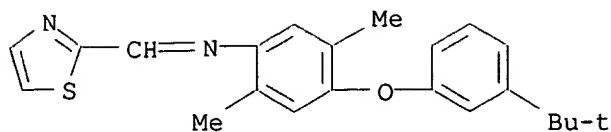
RN 395663-54-4 HCAPLUS

CN Benzenamine, 4-[4-chloro-3-(trifluoromethyl)phenoxy]-2,5-dimethyl-N-(2-thiazolylmethylene)- (9CI) (CA INDEX NAME)



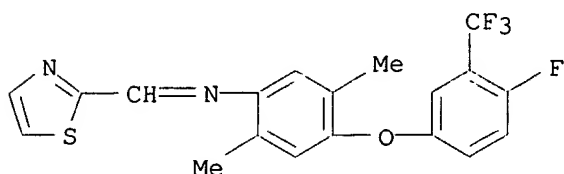
RN 395663-55-5 HCAPLUS

CN Benzenamine, 4-[3-(1,1-dimethylethyl)phenoxy]-2,5-dimethyl-N-(2-thiazolylmethylene)- (9CI) (CA INDEX NAME)



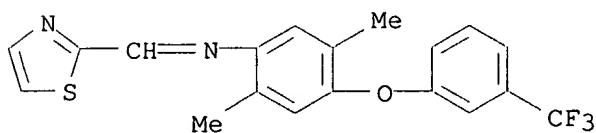
RN 395663-56-6 HCAPLUS

CN Benzenamine, 4-[4-fluoro-3-(trifluoromethyl)phenoxy]-2,5-dimethyl-N-(2-thiazolylmethylene)- (9CI) (CA INDEX NAME)



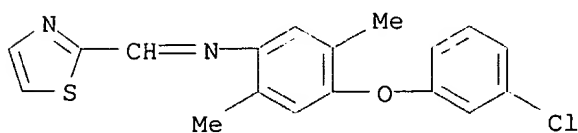
RN 395663-57-7 HCAPLUS

CN Benzenamine, 2,5-dimethyl-N-(2-thiazolylmethylene)-4-[3-(trifluoromethyl)phenoxy]- (9CI) (CA INDEX NAME)



RN 395663-58-8 HCAPLUS

CN Benzenamine, 4-(3-chlorophenoxy)-2,5-dimethyl-N-(2-thiazolylmethylene)- (9CI) (CA INDEX NAME)



=> fil marpat

FILE 'MARPAT' ENTERED AT 09:47:28 ON 29 AUG 2002

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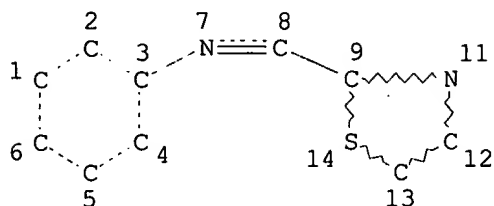
MOST RECENT CITATIONS FOR PATENTS FROM FIVE MAJOR ISSUING AGENCIES  
(COVERAGE TO THESE DATES IS NOT COMPLETE):

US	200209125	11 JUL 2002
DE	10200672	11 JUL 2002
EP	1226835	31 JUL 2002
JP	200221696	02 AUG 2002
WO	200205778	25 JUL 2002

Structure search limits have been raised. See HELP SLIMIT for the new, higher limits.

=> d sta que 125

L1 STR



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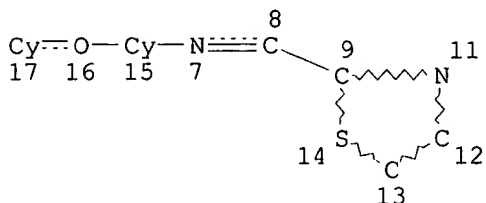
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STEREO ATTRIBUTES: NONE

L6 STR



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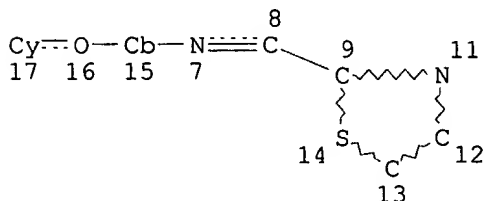
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L16 372 SEA FILE=MARPAT SSS FUL L1

L18 53 SEA FILE=MARPAT SUB=L16 SSS FUL L6

L19 STR



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GGCAT IS MCY UNS AT . 15

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS E6 C AT 15

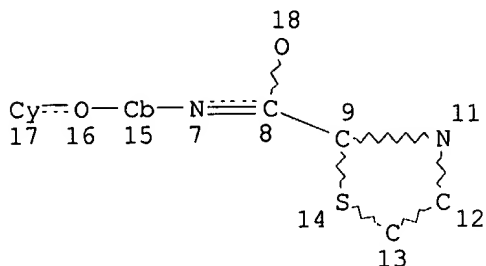
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STEREO ATTRIBUTES: NONE

L20 36 SEA FILE=MARPAT SUB=L18 SSS FUL L19  
L21 STR



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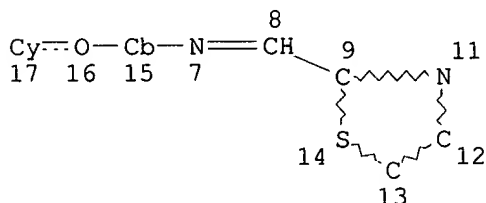
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GGCAT IS MCY UNS AT 15  
DEFAULT ECLEVEL IS LIMITED  
ECOUNT IS E6 C AT 15

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NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE

L22 21 SEA FILE=MARPAT SUB=L20 SSS FUL L21  
L23 15 SEA FILE=MARPAT ABB=ON PLU=ON L20 NOT L22  
L24 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM  
GGCAT IS MCY UNS AT 15  
DEFAULT ECLEVEL IS LIMITED  
ECOUNT IS E6 C AT 15

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L25 8 SEA FILE=MARPAT SUB=L23 SSS FUL L24

100.0% PROCESSED 14 ITERATIONS  
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8 ANSWERS

=> d his 125-

(FILE 'MARPAT' ENTERED AT 09:40:23 ON 29 AUG 2002)

L25 8 S L24 FUL SUB=L23  
SAV L25 TEMP GERSTL923G/A

SEL AN  
EDIT /AN /DN

FILE 'HCAPLUS' ENTERED AT 09:46:54 ON 29 AUG 2002  
L26 8 S E1-E8  
L27 6 S L26 NOT L12

FILE 'MARPAT' ENTERED AT 09:47:28 ON 29 AUG 2002

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FILE COVERS 1907 - 29 Aug 2002 VOL 137 ISS 9  
FILE LAST UPDATED: 27 Aug 2002 (20020827/ED)

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=> d 127 bib abs retable tot

L27 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2002 ACS  
AN 2001:345395 HCAPLUS  
DN 134:348270

TI Preparation of vinylquinoxalines as apolipoprotein A-I expression stimulators

IN Yamamori, Teruo; Nagata, Kiyoshi; Ishizuka, Natsuki; Hayashi, Kunio

PA Shionogi and Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 33 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001131151	A2	20010515	JP 1999-312313	19991102
OS	MARPAT 134:348270				

AB The stimulators, useful for treatment of arteriosclerosis and blood lipid disorder, comprise Ar1Xm(CZ1:CY1)nAr2 (Ar1, Ar2 = (un)substituted Ph, naphthyl, mono or dicyclic arom. heterocyclyl; X = QCZ2, CY2:CZ2, N:CZ2, CY2Y3, NY4, S, O; Q = CY2Y3, NY4; Y1-Y3, Z1, Z2 = H, halo, (un)substituted lower alkyl CO2H, lower alkoxy carbonyl, etc.; Y4 = H, lower alkyl; m = 0-1; n = 0-2), their prodrug, pharmaceutically acceptable salts, or hydrates. 2-Chloroquinoxaline was reacted with 4-chlorobenzaldehyde in the presence of methyltriphenylphosphonium bromide and BuLi in THF at room

*need  
us date*

temp. for 30 min to give 61% 2-[2-(4-chlorophenyl)vinyl]quinoxaline showing good stimulating activity for promoting human apolipoprotein A-I gene.

L27 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2002 ACS

AN 1999:686535 HCAPLUS

DN 131:315906

TI Liquid crystal compounds having a chiral fluorinated terminal portion

IN Johnson, Gilbert C.; Radcliffe, Marc D.; Savu, Patricia M.; Snustad, Daniel C.; Spawn, Terence D.

PA 3M Innovative Properties Company, USA

SO U.S., 36 pp., Cont.-in-part of U.S. 5,702,637.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5972241	A	19991026	US 1997-965348	19971106
	US 5702637	A	19971230	US 1995-424892	19950419
	CA 2217608	AA	19961024	CA 1996-2217608	19960311
	TW 445292	B	20010711	TW 1996-85103385	19960321
PRAI	US 1995-424892	A2	19950419		

OS MARPAT 131:315906

AB The invention relates to fluorinated chiral smectic liq. crystal compds., to a process for the prepn. of such compds. (and no intermediates for use therein), and to liq. crystal compd. mixts. and electrooptical display devices contg. such compds. F-contg., chiral liq. crystal compds. comprise (a) a chiral fluoro-chem. terminal portion contg. .gtoreq.1 methylene group and optionally contg. .gtoreq.1 catenary ether O atom; (b) a satd., chiral or achiral, hydrocarbon terminal portion; and (c) a central core connecting the terminal portions. The compds. have smectic mesophases or latent smectic mesophases and are useful, for example, in liq. crystal display devices.

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Anon	1982			JP 57165334	HCAPLUS
Anon	1985			EP 0163229	HCAPLUS
Anon	1985			DE 3332692	HCAPLUS
Anon	1986			EP 0181601	HCAPLUS
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Anon	1988			EP 0255236	HCAPLUS
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Anon	1989			JP 01104031	HCAPLUS
Anon	1989			EP 0331367	HCAPLUS
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Clark, N	1980	36	899	Appl Phys Lett	HCAPLUS
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Costello	1994			US 5362919	HCAPLUS
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Eidenschink	1986			US 4572794	HCAPLUS
Eidenschink	1986			US 4617140	HCAPLUS
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Misaki	1984			US 4481149	HCAPLUS
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Sato	1980			US 4202791	HCAPLUS
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Schiller	1987	2	21	Liquid Crystals	HCAPLUS
Shionozaki	1989			US 4879060	HCAPLUS
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L27 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2002 ACS

AN 1999:467949 HCAPLUS

DN 131:123054

TI Process for controlling cone tilt angle of smectic liquid crystal composition

IN Kistner, John F.; Radcliffe, Marc D.; Savu, Patricia M.; Snustad, Daniel C.

PA Minnesota Mining and Mfg. Co., USA

SO U.S., 31 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5928562	A	19990727	US 1997-827287	19970327
	US 5658491	A	19970819	US 1995-542179	19951012
PRAI	US 1995-542179		19951012		

OS MARPAT 131:123054

AB A process for controlling the cone tilt angle of a smectic liq. crystal compn. for an electrooptical display device comprises combining (a) at least one liq. crystal compn. comprising at least one smectic or latent smectic liq. crystal compd. comprising (i) an aliph. fluorocarbon terminal portion comprising a terminal fluoroalkyl or fluoroether group and an alkylene group having at least two carbon atoms and contg. at least one catenary ether oxygen atom, (ii) an aliph. hydrocarbon terminal portion, and (iii) a central core connecting the terminal portions and (b) at least one liq. crystal compn. comprising at least one smectic or latent smectic liq. crystal compd. with the provisos that at least one of the compns. (a) and (b) comprises at least one chiral liq. crystal compd. and that the combining of compns. (a) and (b) provides an optically active, tilted chiral smectic liq. crystal compn. The process enables control of the cone tilt angle and thereby control of the brightness characteristics of the display device employing the liq. crystal compn.

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Anon	1982			EP 0047877	HCAPLUS
Anon	1985			EP 0163299	

Anon	1985			DE 3332692	HCAPLUS
Anon	1986			EP 0181601	HCAPLUS
Anon	1987			EP 0220747	HCAPLUS
Anon	1989			EP 0332025	HCAPLUS
Anon	1992			DE 4034123	HCAPLUS
Anon	1993			EP 0548548	HCAPLUS
Anon	1995			EP 0641850	HCAPLUS
Beguim	1981			US 4256656	HCAPLUS
Byun	1989	30	2751	Tetrahedron Letters	HCAPLUS
Chaudhary	1979		95	Tetrahedron Letters	HCAPLUS
Clark	1983			US 4367924	
Coates	1978			US 4113647	HCAPLUS
Eidenschink	1982			US 4330426	HCAPLUS
Fukuda	1994	4	997	J Mater Chem	HCAPLUS
Gray	1989	II	2041	J Chem Soc Perkin Tr	
Iwakura	1964	29	379	J Org Chem	HCAPLUS
Jager	1990		556	Synthesis	
Middleton	1975	40	574	J Org Chem	HCAPLUS
Misaki	1983			US 4393231	HCAPLUS
Miyasato	1983	22	L661	Jap J Appl Phys	
Naciri	1993	148	297	Ferroelectrics	HCAPLUS
Nohira	1990	180B	379	Mol Cryst Liq Cryst	HCAPLUS
Sakaguchi	1991	114	265	Ferroelectrics	HCAPLUS
Sato	1980			US 4202791	HCAPLUS
Simons	1950			US 2519983	HCAPLUS
Steinstrasser	1977			US 4001137	HCAPLUS
Steinstrasser	1977			US 4011173	HCAPLUS
Tesoro	1969			US 3470258	HCAPLUS

L27 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2002 ACS

AN 1999:460408 HCAPLUS

DN 131:94970

TI Liquid crystal compounds having chiral fluorinated terminal portion for electrooptical display devices

IN Hasegawa, Masakazu; Keyes, Michael P.; Radcliffe, Marc D.; Savu, Patricia M.; Snustad, Daniel C.; Spawn, Terence D.

PA Minnesota Mining and Manufacturing Company, USA

SO PCT Int. Appl., 81 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	WO 9933814	A1	19990708	WO 1998-US14624	19980715	
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW:		GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
	US 6309561	B1	20011030	US 1997-998400	19971224	
	AU 9884862	A1	19990719	AU 1998-84862	19980715	
	EP 1042302	A1	20001011	EP 1998-935667	19980715	
	R:	BE, DE, FR, GB, IT				
	JP 2001527070	T2	20011225	JP 2000-526498	19980715	
PRAI	US 1997-998400	A	19971224			
	WO 1998-US14624	W	19980715			
OS	MARPAT 131:94970					
AB	Fluorine-contg., chiral liq. crystal compds. comprise (a) a chiral fluorochem. terminal portion comprising (i) at least one chiral center,					

which can optionally be heteroatom-substituted; (ii) a terminal fluoroalkyl, fluoroether, perfluoroalkyl, or perfluoroether group; and (iii) an alkylene or fluoroalkylene group optionally contg. at least one catenary ether oxygen atom; (b) a chiral or achiral terminal portion consisting of a hydrocarbon or hydrocarbon ether group, and, when chiral, comprising at least one chiral center, which can optionally be heteroatom-substituted; and (c) a central core connecting the terminal portions; the alkylene or fluoroalkylene group of the chiral fluorochem. terminal portion having at least 3 in-chain atoms and being located between the chiral center of the chiral fluorochem. terminal portion and the central core. The compds. have smectic mesophases or latent smectic mesophases and are useful in fabrication of electrooptical display devices.

## RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
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Canon Kk	1992			EP 0499221 A	HCAPLUS
Minnesota Mining & Mfg	1996			WO 9633251 A	HCAPLUS
Nagashima, Y	1997	23	537	LIQUID CRYSTALS	HCAPLUS
Sumitomo Chemical Co	1991			EP 0434297 A	HCAPLUS
Sumitomo Chemical Co	1995			EP 0667384 A	HCAPLUS

L27 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2002 ACS

AN 1998:712307 HCAPLUS

DN 129:323912

TI Compounds and process for controlling cone tilt angle in mixtures of smectic liquid crystal compounds

IN Radcliffe, Marc D.; Savu, Patricia M.; Snustad, Daniel C.; Spawn, Terence D.

PA Minnesota Mining and Manufacturing Co., USA

SO PCT Int. Appl., 63 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9846697	A1	19981022	WO 1998-US5270	19980318
	W: CA, CN, JP, KR				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	US 5855812	A	19990105	US 1997-827753	19970411
	EP 973844	A1	20000126	EP 1998-910468	19980318
	R: DE, FR, GB, NL				
	JP 2001520687	T2	20011030	JP 1998-543901	19980318
PRAI	US 1997-827753	A	19970411		
	WO 1998-US5270	W	19980318		

OS MARPAT 129:323912

AB A process for controlling the cone tilt angle of a tilted smectic liq. crystal compn. comprises the step of combining (a) at least one liq. crystal compn. comprising at least one smectic or latent smectic liq. crystal compd. comprising (i) an aliph. fluorocarbon terminal portion comprising a terminal fluoroalkyl or fluoroether group and an alkylene group having at least two carbon atoms and contg. at least one catenary ether oxygen atom, (ii) an aliph. hydrocarbon terminal portion, and (iii) a central core connecting the terminal portions, wherein the alkylene group of the aliph. fluorocarbon terminal portion is directly linked to the central core by a moiety selected from the group consisting of a covalent bond, -CH=CH-, and -C.tplbond.C- and (b) at least one liq. crystal compn. comprising at least one smectic or latent smectic liq. crystal compd. with the provisos that at least one of the compns. (a) and (b) comprises at least one chiral liq. crystal compd. and that the

combining of compns. (a) and (b) provides an optically active, tilted chiral smectic liq. crystal compn. The process enables control of cone tilt angle and thereby control of the brightness characteristics of liq. crystal display devices.

L27 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2002 ACS

AN 1996:753896 HCAPLUS

DN 126:39837

TI Liquid crystal compounds having chiral fluorinated terminal portion for display devices

IN Johnson, Gilbert C.; Radcliffe, Marc D.; Savu, Patricia M.; Snustad, Daniel C.; Spawn, Terence D.

PA Minnesota Mining and Mfg. Co., USA

SO PCT Int. Appl., 84 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9633251	A1	19961024	WO 1996-US2636	19960311
	W: CA, JP, KR				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	US 5702637	A	19971230	US 1995-424892	19950419
	CA 2217608	AA	19961024	CA 1996-2217608	19960311
	EP 821719	A1	19980204	EP 1996-908535	19960311
	R: BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
	JP 11505212	T2	19990518	JP 1996-531712	19960311
	TW 445292	B	20010711	TW 1996-85103385	19960321
PRAI	US 1995-424892	A	19950419		
	WO 1996-US2636	W	19960311		

OS MARPAT 126:39837

AB Fluorine-contg., chiral liq. crystal compds. comprise (a) a chiral fluorochem. terminal portion contg. at least one methylene group and optionally contg. at least one catenary ether oxygen atom, (b) a satd., chiral or achiral, hydrocarbon terminal portion, and (c) a central core connecting the terminal portions. The compds. have smectic mesophases or latent smectic mesophases and are useful in liq.-crystal display devices.

=> fil marpat

FILE 'MARPAT' ENTERED AT 09:47:57 ON 29 AUG 2002

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE CONTENT: 1988-PRESENT (VOL 104 ISS 15-VOL 137 ISS 8) (20020823/ED)

MOST RECENT CITATIONS FOR PATENTS FROM FIVE MAJOR ISSUING AGENCIES  
(COVERAGE TO THESE DATES IS NOT COMPLETE):

US	200209125	11 JUL 2002
DE	10200672	11 JUL 2002
EP	1226835	31 JUL 2002
JP	200221696	02 AUG 2002
WO	200205778	25 JUL 2002

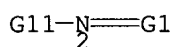
Structure search limits have been raised. See HELP SLIMIT for the new, higher limits.

=> d scan 125

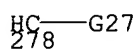
L25 8 ANSWERS MARPAT COPYRIGHT 2002 ACS

IC ICM C07C251-24  
 ICS C07D277-28; C07D207-32; C07D213-53; C07D307-70; A01N035-10;  
 A01N043-78; A01N043-36; A01N043-08; A01N043-40  
 CC 25-4 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
 Section cross-reference(s): 5  
 TI Preparation of N-(phenoxyphenyl)imines and analogs as agrochemical  
 fungicides  
 ST phenoxyphenylimine prepn agrochem fungicide  
 IT Fungicides  
 (agrochem.; N-(phenoxyphenyl)imines and analogs)  
 IT 395663-54-4P 395663-55-5P 395663-56-6P 395663-57-7P 395663-58-8P  
 395663-59-9P 395663-60-2P 395663-62-4P 395663-64-6P 395663-66-8P  
 395663-67-9P 395663-68-0P 395663-69-1P 395663-70-4P 395663-71-5P  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN  
 (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES  
 (Uses)  
 (prepn. of N-(phenoxyphenyl)imines and analogs as agrochem. fungicides)  
 IT 98-17-9, 3-Trifluoromethylphenol 1122-62-9 10200-59-6,  
 2-Thiazolecarboxaldehyde 34633-69-7 395663-72-6  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (prepn. of N-(phenoxyphenyl)imines and analogs as agrochem. fungicides)  
 IT 287942-14-7P 287942-23-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (prepn. of N-(phenoxyphenyl)imines and analogs as agrochem. fungicides)

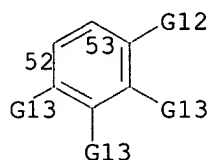
## MSTR 1A



G1 = 278



G16 = thiazolyl (SO)  
 G17 = O  
 G25 = 53-2 52-31



G27 = 2-thiazolyl  
 MPL: claim 1  
 NTE: and salts

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1): 7

L25 8 ANSWERS MARPAT COPYRIGHT 2002 ACS  
 IC ICM C09K019-34  
 ICS C09K019-32; C07C025-13; C07D239-02; C07D319-12; C07D263-02  
 NCL 252299610  
 CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other

## Reprographic Processes)

Section cross-reference(s): 75

TI Liquid crystal compounds having a chiral fluorinated terminal portion

ST liq crystal chiral fluorinated terminal

IT Liquid crystals

(chiral smectic; prepn. of liq. crystal compds. with chiral fluorinated terminal chain and having smectic mesophase suitable for liq. crystal mixt. display devices)

IT Liquid crystal displays

(prepn. of liq. crystal compds. with chiral fluorinated terminal chain and having smectic mesophase suitable for liq. crystal mixt. display devices)

IT	184350-39-8P	184350-41-2P	184350-43-4P	184350-44-5P	184350-45-6P
	184350-46-7P	184350-48-9P	184350-52-5P	184350-54-7P	184350-62-7P
	184350-71-8P	184350-72-9P	184350-73-0P	184350-74-1P	184350-75-2P
	184350-76-3P	184350-77-4P	184350-78-5P	184350-79-6P	184350-80-9P
	184350-81-0P	184350-82-1P	232921-55-0P	247908-34-5P	247908-35-6P
	247908-36-7P	247908-37-8P	247908-39-0P	247908-40-3P	247908-41-4P
	247908-42-5P	247908-43-6P	247908-44-7P	247908-45-8P	247908-46-9P
	247908-47-0P	247908-66-3P	247908-68-5P	247908-69-6P	247908-70-9P
	247908-71-0P	247908-72-1P	247908-73-2P	247908-74-3P	247908-75-4P
	247908-76-5P	247908-77-6P	247908-78-7P	247908-79-8P	247908-80-1P
	247908-81-2P	247908-82-3P	247908-84-5P	247908-85-6P	247908-86-7P
	247908-87-8P	247908-88-9P	247908-89-0P	247908-90-3P	247908-91-4P
	247908-92-5P	247908-93-6P	247908-94-7P	247908-95-8P	247908-96-9P
	247908-97-0P	247908-98-1P	247908-99-2P	247909-00-8P	247909-01-9P

RL: NUU (Other use, unclassified); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (chiral smectic liq. crystal compds. with fluorinated terminal chain for liq. crystal mixt. display devices)

IT	247908-50-5P	247908-52-7P	247908-55-0P	247908-57-2P	247908-61-8P
	247908-63-0P	247908-65-2P			

RL: DEV (Device component use); NUU (Other use, unclassified); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

(liq. crystal display mixt. device contg. smectic compds. with chiral fluorinated terminal chain)

## MSTR 1

G1-G11-G20-G22  
2 3 4 5

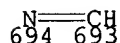
G7 = 246-1 243-238



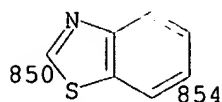
G8 = O

G9 = p-C6H4

G10 = 694-239 693-3



G11 = 850-2 854-4



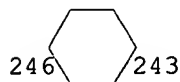
MPL: claim 4  
 NTE: additional oxygen interruptions of alkylene in G21 and perfluoroalkyl  
 in G22 also claimed

L25 8 ANSWERS MARPAT COPYRIGHT 2002 ACS  
 IC ICM C09K019-04  
 ICS C09K019-34; C07D239-26; C07D239-34  
 CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other  
 Reprographic Processes)  
 Section cross-reference(s): 75  
 TI Compounds and process for controlling cone tilt angle in mixtures of  
 smectic liquid crystal compounds  
 ST smectic liq crystal compn display device; cone tilt angle liq crystal  
 display  
 IT Liquid crystal displays  
 (comps. and process for controlling cone tilt angles in smectic liq.  
 crystal compns. for)  
 IT 214974-35-3 214974-36-4 214974-38-6 214974-39-7 214974-40-0  
 214974-41-1 214974-42-2 214974-44-4 214974-45-5 214974-46-6  
 214974-47-7 214974-48-8 214974-49-9 214974-50-2 214974-51-3  
 214974-52-4 214974-53-5 214974-54-6 214974-55-7 214974-57-9  
 214974-58-0 214974-59-1 214974-60-4 214974-61-5 214974-62-6  
 214974-63-7 214974-64-8 214974-65-9  
 RL: DEV (Device component use); TEM (Technical or engineered material  
 use); USES (Uses)  
 (prepn. and use in controlling cone tilt angles in smectic liq. crystal  
 compns. for electrooptical display devices)

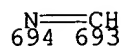
MSTR 1A

G1—G11—G20—G22  
 2 3 4 5

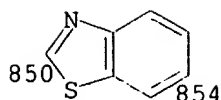
G7 = 246-1 243-238



G8 = O  
 G9 = p-C6H4  
 G10 = 694-239 693-3



G11 = 850-2 854-4



MPL: claim 1

NTE: additional oxygen interruptions of alkylene in G21 and perfluoroalkyl in G22 also claimed

L25 8 ANSWERS MARPAT COPYRIGHT 2002 ACS

IC ICM C07C251-24

ICS C07D277-28; C07D207-32; C07D213-53; C07D307-70; A01N035-10;  
A01N043-78; A01N043-36; A01N043-08; A01N043-40CC 25-4 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
Section cross-reference(s): 5TI Preparation of N-(phenoxyphenyl)heteroaryimines as agrochemical fungicides  
ST phenoxyphenylheteroaryimine prepn agrochem fungicide

IT Fungicides

(agrochem.; N-(phenoxyphenyl)heteroaryimines)

IT 395663-54-4P 395663-55-5P 395663-56-6P 395663-57-7P 395663-58-8P

395663-59-9P 395663-60-2P 395663-62-4P 395663-64-6P 395663-66-8P

395663-67-9P 395663-68-0P 395663-69-1P 395663-70-4P 395663-71-5P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN  
(Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES  
(Uses)

(prepn. of N-(phenoxyphenyl)heteroaryimines as agrochem. fungicides)

IT 98-17-9 1122-62-9 10200-59-6, 2-Thiazolecarboxaldehyde 34633-69-7  
395663-72-6

RL: RCT (Reactant); RACT (Reactant or reagent)

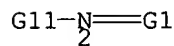
(prepn. of N-(phenoxyphenyl)heteroaryimines as agrochem. fungicides)

IT 287942-14-7P 287942-23-8P

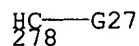
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)

(prepn. of N-(phenoxyphenyl)heteroaryimines as agrochem. fungicides)

MSTR 1A



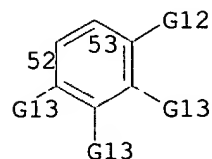
G1 = 278



G16 = thiazolyl (SO)

G17 = O

G25 = 53-2 52-31





G27 = 2-thiazolyl  
 MPL: claim 1  
 NTE: and salts

L25 8 ANSWERS MARPAT COPYRIGHT 2002 ACS  
 IC ICM C09K019-06  
 ICS C09K019-34; C09K019-30; C07C022-00  
 NCL 252299600  
 CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)  
 Section cross-reference(s): 75  
 TI Process for controlling cone tilt angle of smectic liquid crystal composition  
 ST cone tilt angle smectic liq crystal; display liq crystal cone tilt angle  
 IT Liquid crystal displays  
 (process for controlling cone tilt angles of smectic liq. crystal compns. for)  
 IT 174861-33-7P 189827-46-1P 189827-49-4P 189827-51-8P 189870-57-3P  
 189870-58-4P 189870-59-5P 189870-60-8P 189870-61-9P 189870-62-0P  
 189870-63-1P 189870-64-2P 189870-65-3P 189870-66-4P 189870-67-5P  
 189870-68-6P 189870-69-7P 189870-71-1P 189870-72-2P 189870-73-3P  
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 232921-89-0P 232921-90-3P 232921-91-4P 232921-92-5P 232921-93-6P  
 232921-94-7P 232921-95-8P 232921-96-9P  
 RL: DEV (Device component use); SPN (Synthetic preparation); TEM  
 (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (prepn. and use in smectic liq. crystal compns. with improved cone tilt  
 angles for electrooptical display devices)  
 IT 152915-34-9 152915-36-1 174861-32-6 174861-36-0 174861-41-7  
 184350-41-2 232921-43-6 232921-44-7  
 RL: DEV (Device component use); TEM (Technical or engineered material  
 use); USES (Uses)  
 (smectic liq. crystal compns. with improved cone tilt angles for  
 electrooptical display device fabrication contg.)

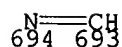
## MSTR 1

G1—G11—G20—G22  
 2—3—4—5

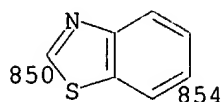
G7 = 246-1 243-238



G8 = O  
 G9 = p-C6H4  
 G10 = 694-239 693-3



G11 = 850-2 854-4



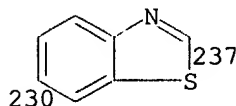
MPL: claim 1  
 NTE: additional oxygen interruptions of alkylene in G21 and perfluoroalkyl  
 in G22 also claimed

L25 8 ANSWERS MARPAT COPYRIGHT 2002 ACS  
 IC ICM C09K019-34  
 ICS C09K019-12; C09K019-04; C07D239-26; C07D239-34; C07D263-24;  
 C07D307-32; C07D405-12; C07D413-10  
 CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other  
 Reprographic Processes)  
 Section cross-reference(s): 75  
 TI Liquid crystal compounds having chiral fluorinated terminal portion for  
 display devices  
 ST fluorinated chiral liq crystal display device  
 IT Electrooptical imaging devices  
 (fluorine-contg. chiral liq. crystals for)  
 IT 184350-37-6 184350-38-7 184350-39-8 184350-40-1 184350-41-2  
 184350-42-3 184350-43-4 184350-44-5 184350-45-6 184350-46-7  
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 184350-77-4 184350-78-5 184350-79-6 184350-80-9 184350-81-0  
 184350-82-1  
 RL: DEV (Device component use); TEM (Technical or engineered material  
 use); USES (Uses)  
 (electrooptical display devices using liq. crystal compns. contg.)

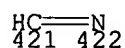
# MSTR 1A

G23-G1-G9-G17-G20-G16  
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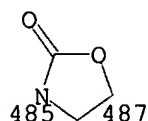
G4 = 230-1 237-143



G5 = p-C6H4 (SO (1) G3)  
 G6 = 421-142 422-144



G9 = O  
G17 = 485-3 487-5



MPL: claim 1

L25 8 ANSWERS MARPAT COPYRIGHT 2002 ACS  
IC ICM C07D213-53  
ICS A61K031-4402; A61K031-4433; A61K031-4436; A61K031-4439; A61K031-47;  
A61K031-498; A61P003-06; A61P009-10; A61P043-00; C07D213-06;  
C07D215-14; C07D241-42; C07D401-06; C07D405-06; C07D409-06;  
C07D417-06  
CC 1-8 (Pharmacology)  
Section cross-reference(s): 28, 63  
TI Preparation of vinylquinoxalines as apolipoprotein A-I expression  
stimulators  
ST apolipoprotein A I expression stimulator; antiarteriosclerotic  
vinylquinoxaline prepn; blood lipid disorder treatment vinylquinoxaline  
prepn  
IT Apolipoproteins  
RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(A-I; prepn. of vinylquinoxalines as apolipoprotein A-I expression  
stimulators)  
IT Lipids, biological studies  
RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(blood, disorder, treatment of; prepn. of vinylquinoxalines as  
apolipoprotein A-I expression stimulators)  
IT Antiartherosclerotics  
(prepn. of vinylquinoxalines as apolipoprotein A-I expression  
stimulators)  
IT 339295-70-4P 339295-79-3P 339295-83-9P  
RL: BAC (Biological activity or effector, except adverse); BSU (Biological  
study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU  
(Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT  
(Reactant or reagent); USES (Uses)  
(prepn. of vinylquinoxalines as apolipoprotein A-I expression  
stimulators)  
IT 714-08-9P 838-34-6P 1437-15-6P 1666-96-2P 1834-86-2P 2620-81-7P  
5021-43-2P 5021-46-5P 13206-42-3P 14251-81-1P 16032-40-9P  
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339296-19-4P 339296-20-7P 339315-60-5P 339315-61-6P 339315-62-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of vinylquinoxalines as apolipoprotein A-I expression stimulators)

IT 91-63-4, Quinaldine 100-52-7, Benzaldehyde, reactions 100-83-4, 3-Hydroxybenzaldehyde 104-55-2, Cinnamaldehyde 104-87-0, p-Tolualdehyde 104-88-1, 4-Chlorobenzaldehyde, reactions 498-62-4, Thiophene-3-carbaldehyde 1003-29-8, Pyrrole-2-carbaldehyde 1448-87-9, 2-Chloroquinoxaline 2969-81-5, Ethyl 4-bromobutyrate 6959-47-3, 2-Chloromethylpyridine hydrochloride 16179-97-8, 2-Pyridylacetic acid hydrochloride

RL: RCT (Reactant); RACT (Reactant or reagent)

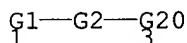
(prepn. of vinylquinoxalines as apolipoprotein A-I expression stimulators)

IT 1504-75-2P, 4-Methylcinnamaldehyde 2905-82-0P, Methyl 2-hydroxy-5-methoxybenzoate 4377-33-7P, 2-Chloromethylpyridine 14756-03-7P 39996-87-7P, Diethyl pyridin-2-ylmethylphosphonate 73718-01-1P 132376-87-5P 339295-58-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of vinylquinoxalines as apolipoprotein A-I expression stimulators)

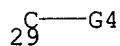
#### MSTR 1



G1 = Ph (SO (1-) G15)

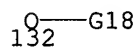
G3 = N

G7 = 29



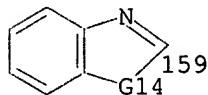
G14 = S

G15 = 132



G18 = Ph

G20 = 159



MPL: claim 1

NTE: substitution is restricted

NTE: or prodrugs, pharmaceutically acceptable salts or hydrates

NTE: additional ring formation also claimed

ICS C09K019-34

CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 28, 75

TI Liquid crystal compounds having chiral fluorinated terminal portion for electrooptical display devices

ST fluorinated chiral liq crystal electrooptical display

IT Liquid crystals  
(having chiral fluorinated terminal portions)

IT Liquid crystal displays  
(liq. crystal compds. having chiral fluorinated terminal portions for)

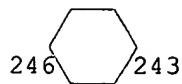
IT 229968-17-6P 229968-18-7P 229968-19-8P 229968-20-1P 229968-21-2P  
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 229970-22-3P 229970-23-4P 229970-24-5P 229970-25-6P 229970-59-6P

RL: DEV (Device component use); SPN (Synthetic preparation); TEM  
 (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (synthesis and use as liq. crystal in electrooptical display devices)

MSTR 1A

G1-G11-G20-G22  
2-3-4-5

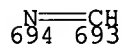
G7 = 246-1 243-238



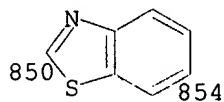
G8 = O

G9 = p-C6H4

G10 = 694-239 693-3



G11 = 850-2 854-4



MPL: claim 3

NTE: additional oxygen interruptions of perfluoroalkyl in G22 also claimed

ALL ANSWERS HAVE BEEN SCANNED

=> d his

(FILE 'HOME' ENTERED AT 09:33:16 ON 29 AUG 2002)  
SET COST OFF

FILE 'REGISTRY' ENTERED AT 09:33:22 ON 29 AUG 2002

L1 STR  
L2 16 S L1  
L3 SCR 2004 AND 1840  
L4 10 S L1 AND L3  
L5 195 S L1 AND L3 FUL  
SAV TEMP L5 GERSTL923/A  
L6 STR L1  
L7 0 S L6 SAM SUB=L5  
L8 8 S L6 FUL SUB=L5  
SAV TEMP L8 GERSTL923A/A  
L9 3 S L8 AND (C26H20N4O2S OR C31H23N5O3S2 OR C28H18N4OS4)  
L10 5 S L8 NOT L9

FILE 'HCAOLD' ENTERED AT 09:38:51 ON 29 AUG 2002

L11 0 S L10

FILE 'HCAPLUS' ENTERED AT 09:38:54 ON 29 AUG 2002

L12 2 S L10

FILE 'USPATFULL, USPAT2' ENTERED AT 09:38:57 ON 29 AUG 2002

L13 1 S L10

FILE 'REGISTRY' ENTERED AT 09:39:14 ON 29 AUG 2002

FILE 'USPATFULL, USPAT2' ENTERED AT 09:39:28 ON 29 AUG 2002